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UNIVERSAL INPUT

FSA55P SERIES
55 WATT SWITCHING POWER SUPPLIES

FEATURES
- 15 Standard desktop models
- Single, dual or triple outputs
- Optional output connectors
- Optional on/off switch
- 100% burn-in
- Wide input range 85 to 264 VAC
- Input surge current protection
- Overvoltage protection
- Overcurrent protection

DESCRIPTION
The FSA55P series of AC/DC switching power supplies are for 40 - 55 watts of continuous output power. They are enclosed in a 94V-1 rated polyphenylene-oxide case with an IEC 320 inlet to mate with an interchangeable cord for worldwide use. All models meet CISPR 22 and FCC class B emission limits, and comply with UL, CSA, VDE, IEC and CE requirements.

INPUT SPECIFICATION

Input Voltage:	85 to 264 VAC
Input Frequency:	47 ~ 63Hz
Input Current:	1.5A (rms) for 115 VAC 0.9A (rms) for 230VAC
Leakage Current:	0.35mA max. @ 110 VAC, 60Hz 0.63mA max. @ 240 VAC, 50Hz

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.:	0° to +70°C
Storage Temperature:	-40°C to +85°C
Relative Humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50°C to lineally to 50% at +70°C.

OUTPUT SPECIFICATIONS

Output Voltage / Current:	See rating chart
Total Output Power:	0 to 55 watts
Ripple and Noise:	1% peak to peak max.
Overvoltage Protection:	Provided on output #1 only; set at 112-132% of it's nominal output voltage
Overcurrent Protection:	All outputs protected to short circuit conditions
Temperature Coefficient:	All outputs ± 0.04% /°C maximum
Transient Response:	Max. excursion of 4% or better on all models, recovering to 1% of final value within 500µs after a 25% step load change

GENERAL SPECIFICATIONS

Switching Frequency:	40kHz ± 58kHz
Efficiency:	70% min. on single output with Vo ≥ 10V, 65% min. on the others
Hold-up Time:	10 mS min. at 110 VAC
Line Regulation:	±0.5% max. at full load
Inrush Current: (25° C cold start)	15 amps. @ 115VAC, or 30 amps @ 230 VAC
Withstand Voltage:	4,000VAC input to output 1,500VAC input to ground 500VAC output to ground
MTBF: (25°C ambient)	100,000 hours min. at full load
EMI Requirements:	In compliance with CISPR 11 (EN 55011) Class B and FCC Class B
Safety Requirements:	Meets or exceeds: (a) UL 2601-1 (b) CSA C22.2 No. 601.1 (c) EN 60601-1 (IEC 601-1)

E135662 LR74458 S9352421 (LVD)

FORTRON/SOURCE

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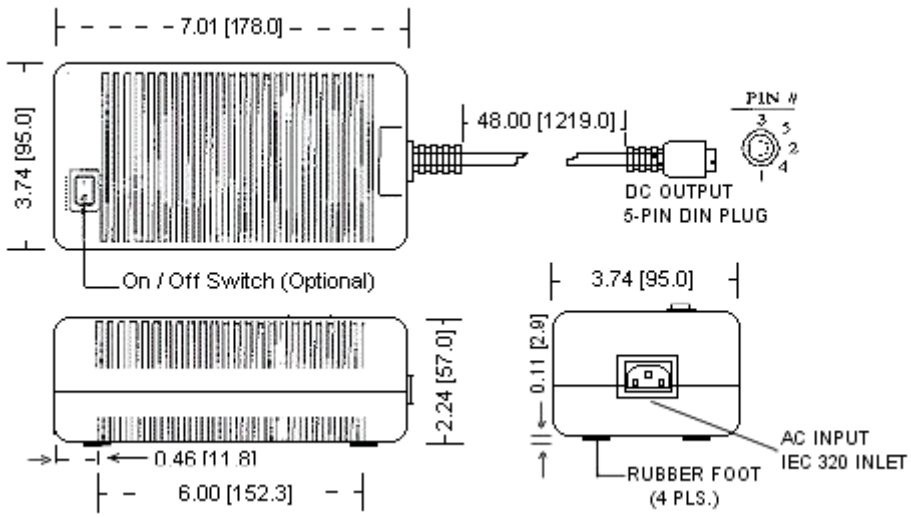
OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output #1				Output #2				Output #3				Max.
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Output
FSA55P10	5-6V	0A	8.0A	5%			(N/A)				(N/A)		40W
FSA55P10-1	6-8V	0A	7.5A	5%			(N/A)				(N/A)		45W
FSA55P11	9-11V	0A	5.0A	5%			(N/A)				(N/A)		50W
FSA55P12	11-13V	0A	4.6A	5%			(N/A)				(N/A)		55W
FSA55P13	13-17V	0A	3.7A	3%			(N/A)				(N/A)		55W
FSA55P13-1	17-21V	0A	3.1A	3%			(N/A)				(N/A)		55W
FSA55P14	21-27V	0A	2.3A	3%			(N/A)				(N/A)		55W
FSA55P16	27-33V	0A	1.9A	3%			(N/A)				(N/A)		55W
FSA55P17	33-39V	0A	1.6A	3%			(N/A)				(N/A)		55W
FSA55P18	48V	0A	1.2A	3%			(N/A)				(N/A)		55W
FSA55P23	+5V	1A	5.0A	5%	+12V	0.5A	3.0A	5%			(N/A)		45W
FSA55P24	+5V	1A	5.0A	5%	+15V	0.4A	2.5A	5%			(N/A)		45W
FSA55P25	+5V	1A	5.0A	5%	+24V	0.3A	2.0A	5%			(N/A)		45W
FSA55P31	+5V	1A	5.0A	5%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%	45W
FSA55P32	+5V	1A	5.0A	5%	+15V	0.4A	2.5A	5%	-15V	0.1A	0.5A	10%	45W

Notes: (1) The output voltage of a single output model, except FSA55P18, can be adjusted by user in the stated range, or set by factory to a wanted value in the range at the request of a user when ordering.

(2) The output voltages of a multiple output model may go outside of the stated tolerance when an output load current is out of stated limits. All models may be operated at no-load without damage.

MECHANICAL SPECIFICATIONS



NOTES:

1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Weight: 700 grams approx.
4. Contact Fortron / Source for information on optional output connectors
5. To order a model with on / off switch, add suffix "S" to the model number, e.g. FSA55P10-S

PIN CHART

MODEL \ PIN	1	2	3	4	5
FSA55P10 FSA55P10-1 FSA55P11 FSA55P12 FSA55P13 FSA55P13-1 FSA55P14 FSA55P16 FSA55P17 FSA55P18	Return	Return	Output # 1	Return	Output # 1
FSA55P23 FSA55P24 FSA55P25	Common Return	Common Return	Output # 1	Common Return	Output # 2
FSA55P31 FSA55P32	Common Return	Common Return	Output # 1	Output # 3	Output # 2

Note: All data are subject to change without notice

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